Title: Gorenstein flat and projective (pre)covers

Author(s): Sergio Estrada, Alina Iacob and Sinem Odabasi

We consider a left GF-closed ring R. We prove that the class of Gorenstein flat complexes is covering in the category of complexes of left R-modules $\mathrm{Ch}(R)$. When R is right coherent and left n-perfect, we prove that the class of Gorenstein projective complexes is special precovering in $\mathrm{Ch}(R)$.

Address:
Sergio Estrada
Department of Mathematics
University of Murcia
Murcia
Spain

Address:
Alina Iacob
Department of Mathematical Sciences
Georgia Southern University
65 Georgia Ave. Room 3008
P. O. Box 8093
Statesboro, GA 30460
USA

Address:
Sinem Odabasi
Universidad Austral de Chile
Valdivia
Chile